

# KENWOOD

Listen to the Future

NEXEDGE™

## NXR-710/810

NEXEDGE™ VHF/UHF Digital & FM Base Units

**NXDN®**

**FleetSync®**  
by KENWOOD

### ● GENERAL FEATURES

- 136 - 174 MHz, 50 W
- 400 - 470, 450 - 520 MHz, 40 W
- 50 / 40 W @ 50 % Duty
- 25 / 25 W @ 100 % Duty
- 60 / 100 W @ 100 % Duty (with Power Amplifier KRP-10)
- Repeater Operation
- Duplex / Simplex Base Operation
- 30 CH Scanning Base
- Two-Digit LED Display
- 6 Lighted Programmable Function Keys
- Front Panel Speaker
- Rear External Speaker Output (4 Watts Audio)
- Volume Control
- Program Interface
- Remote Termination Interface
- Programmable AUX I/O's
- RF Power Down Detect
- DTMF Front Panel PF Key Control
- DTMF AUX Output Control
- DTMF AUX Input Monitoring
- Windows® PC Programming
- Flash Firmware Upgrading
- Transmission Rate 9,600 bps
- AES-256 Encryption Module

### ● DIGITAL – CONVENTIONAL MODE

- NXDN® Digital Air Interface
- Conventional IP Network
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Mixed FM / Digital Operation
- NXDN® Scrambler Built-in
- 16 RAN Repeater Control Built-in
- 1,000 GIDs Per Site
- 1,000 UIDs Per Site
- Individual & Group Selective Call
- All Group Call
- NXR Over-the-Air Alias

### ● FM MODES – GENERAL

- VHF: 25 & 12.5 kHz Channels
- UHF: 25 & 12.5 kHz Channels
- Built-in Scrambler

### ● FM CONVENTIONAL MODE

- 16 QT/DQT Repeater Control Built-in
- Hang Timer / Time Out Timer / CW ID
- External FM Controller Interface
- EIA Voter Tone Generation

### ● FM TRUNKED MODE

- External LTR® Controller Interface
- External MPT Controller Interface



## Options

### ■ KMC-27A

Microphone  
(MIL-SPEC noise-canceling)



### ■ KMC-27B

Microphone



### ■ KMC-35

Microphone

### ■ KMC-9C

Desktop Microphone



### ■ KES-5

External Speaker



### ■ KTI-3

Network Interface Unit



### ■ KRP-10

Power Amplifier



All accessories and options may not be available in all markets. Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

## Main Specifications

		NXR-710	NXR-810
<b>GENERAL</b>			
Frequency Range	K Type K2 Type	136-174 MHz	450-520 MHz 400-470 MHz
Number of Channels		30	
Channel Spacing	Analog Digital	12.5 / 15 / 25 / 30 kHz 6.25 / 7.5 / 12.5 / 15 kHz	12.5 / 25 kHz 6.25 / 12.5 kHz
PLL Channel Step		2.5 / 3.125 kHz	
Current Drain	Standby (without KRP-10) Receive (without KRP-10) Transmit (without KRP-10)	0.5 A 1.0 A 11.0 A	
TX Power	50% Duty 100% Duty 100% Duty (with KRP-10)	50 W 25 W 60 W / 100 W	40 W 25 W 60 W / 100 W
Frequency Stability		± 1.0 ppm	
Operating Voltage		10.8 - 15.6 V DC	
Operating Temperature Range		-30° C to +60° C	
Antenna Impedance		50 Ω	
Dimensions (W x H x D), Projections not included		483 x 88 x 340 mm (without KRP-10)	
Weight (net)		9.7 kg (without KRP-10)	
<b>RECEIVER</b>			
Sensitivity	Digital @ 6.25kHz (3% BER) Digital @ 12.5kHz (3% BER) Analog (12 dB SINAD)	0.22 μV 0.28 μV 0.28 μV	
Selectivity	Digital @ 12.5kHz Analog @ 25 kHz Analog @ 12.5 kHz	62 dB 83 dB 77 dB	62 dB 80 dB 74 dB
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz	55 dB 50 dB	
Intermodulation Distortion	Digital Analog	77 dB 80 dB	
Spurious Response		90 dB	
Audio Distortion (Ext. SP)		Less than 2.5% at 1000 Hz	
Audio Output (Ext. SP)		4 W (at 4Ω, less than 5% distortion)	
<b>TRANSMITTER</b>			
RF Power Output	without KRP-10 with KRP-10	25 W to 50 W 60 W / 100 W	25 W to 40 W 60 W / 100 W
Spurious & Harmonics	without KRP-10 with KRP-10	80 dB 70 dB	
FM Hum & Noise	Analog @ 25 kHz Analog @ 12.5 kHz	55 dB 50 dB	
Audio Distortion Modulation		Less than 1% at 1000 Hz 16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

Analog measurements made per TIA/EIA 603 and specifications shown are typical. Kenwood reserves the right to change specifications without prior notice or obligation.

FleetSync® is a registered trademark of Kenwood Corporation.  
LTR® is a registered trademark of Transcript International.  
AMBE+2™ is a trademark of Digital Voice Systems Inc.  
Windows® and Windows 2000/XP/Vista™ are registered trademarks of Microsoft Corporation.  
NXDN® is a registered trademark of Kenwood Corporation and Icom Inc.  
NEXEDGE™ is a trademark of Kenwood Corporation in U.S.A. and some countries.

## Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

# Kenwood Corporation

1-16-2 Hakusan, Midori-ku, Yokohama-shi, Kanagawa, 226-8525 Japan

www.kenwood.com

http://nexedge.kenwood.com

